



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Our Case No. 1879-13813US01)

1764.
5

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GROUP 1700

PATENT APPLICATION OF:

John D. Hottovy,
Harvey D. Hensley,
David J. Przelomski,
Teddy H. Cymbaluk,
Robert K. Franklin, III, and
Ethelwoldo P. Perez

Serial No. 09/586,370

Filed: June 2, 2000

For: High Solids Slurry Polymerization

Examiner: H. Tranhein

Group Art Unit: 1764

CERTIFICATE OF MAILING

I hereby certify that this
correspondence is being
deposited with the United States
Postal Service as first class mail,
postage prepaid, in an envelope
addressed to: Commissioner for
Patents, Washington, D.C. 20231,
on this date:

Date:

April 9, 2003

By:

Michael B. Harlin

Michael B. Harlin
Reg. No. 43,658

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Applicants call to the attention of the Examiner the following information in connection with the above application. Pursuant to 37 C.F.R. §1.97(g) and (h), the disclosure of the following information in this Information Disclosure Statement shall not constitute a representation that a search for prior art was made or an admission that the information is material or that it is prior art:

1) The following references (copies of which are provided) are listed on the face of U.S. Patent No. 6,239,235, which is a parent application of the present application:

U.S. Patent No. 3,152,872

U.S. Patent No. 3,172,737
U.S. Patent No. 3,242,150
U.S. Patent No. 3,248,179
U.S. Patent No. 3,262,922
U.S. Patent No. 3,318,857
U.S. Patent No. 3,418,305
U.S. Patent No. 3,816,383
U.S. Patent No. 4,007,321
U.S. Patent No. 4,099,335
U.S. Patent No. 4,121,029
U.S. Patent No. 4,395,523
U.S. Patent No. 4,424,341
U.S. Patent No. 4,501,885
U.S. Patent No. 4,613,484
U.S. Patent No. 4,737,280
U.S. Patent No. 4,794,151
U.S. Patent No. 4,832,915
U.S. Patent No. 5,183,866
U.S. Patent No. 5,455,314
U.S. Patent No. 5,565,174
U.S. Patent No. 5,575,979
U.S. Patent No. 5,597,892

2) The following references (copies of which are provided) are not listed on the face of U.S. Patent No. 6,239,235:

U.S. Patent No. 1,693,786
U.S. Patent No. 2,770,295
U.S. Patent No. 2,825,721
U.S. Patent No. 2,915,513
U.S. Patent No. 2,943,082
U.S. Patent No. 2,951,067

U.S. Patent No. 2,952,671
U.S. Patent No. 2,982,763
U.S. Patent No. 2,988,527
U.S. Patent No. 3,001,978
U.S. Patent No. 3,126,365
U.S. Patent No. 3,203,766
U.S. Patent No. 3,257,363
U.S. Patent No. 3,285,899
U.S. Patent No. 3,293,000
U.S. Patent No. 3,309,350
U.S. Patent No. 3,324,093
U.S. Patent No. 3,551,403
U.S. Patent No. 3,594,356
U.S. Patent No. 3,625,658
U.S. Patent No. 3,640,980
U.S. Patent No. 3,642,731
U.S. Patent No. 3,794,627
U.S. Patent No. 3,858,943
U.S. Patent No. 3,879,361
U.S. Patent No. 3,912,701
U.S. Patent No. 3,956,061
U.S. Patent No. 3,956,257
U.S. Patent No. 4,126,743
U.S. Patent No. 4,199,546
U.S. Patent No. 4,258,158
U.S. Patent No. 4,372,758
U.S. Patent No. 4,383,972
U.S. Patent No. 4,436,902
U.S. Patent No. 4,439,601
U.S. Patent No. 4,461,889
U.S. Patent No. 4,499,263

U.S. Patent No. 4,528,337
U.S. Patent No. 4,543,399
U.S. Patent No. 4,589,957
U.S. Patent No. 4,632,976
U.S. Patent No. 4,690,804
U.S. Patent No. 5,207,929
U.S. Patent No. 5,225,465
U.S. Patent No. 5,272,236
U.S. Patent No. 5,276,115
U.S. Patent No. 5,278,272
U.S. Patent No. 5,292,863
U.S. Patent No. 5,314,579
U.S. Patent No. 5,326,835
U.S. Patent No. 5,371,158
U.S. Patent No. 5,387,659
U.S. Patent No. 5,416,179
U.S. Patent No. 5,436,212
U.S. Patent No. 5,473,020
U.S. Patent No. 5,480,948
U.S. Patent No. 5,492,985
U.S. Patent No. 5,565,175
U.S. Patent No. 5,639,834
U.S. Patent No. 5,712,365
U.S. Patent No. 5,744,555
U.S. Patent No. 5,747,407
U.S. Patent No. 5,898,053
U.S. Patent No. 5,959,044
U.S. Patent No. 5,986,021
U.S. Patent No. 6,042,790
U.S. Patent No. 6,045,661
U.S. Patent No. 6,239,235

U.S. Patent No. 6,204,344
U.S. Patent No. 6,225,422
U.S. Patent No. 6,281,300
U.S. Patent No. 6,319,997
U.S. Patent No. 6,380,325
U.S. Patent Application Publication No. 2001/0012497
U.S. Patent Application Publication No. 2002/0086955 A1
U.S. Patent Application Publication No. 2002/0111441 A1
U.S. Patent Application Publication No. 2002/0132936 A1
U.S. Patent Application Publication No. 2002/0173598 A1
U.S. Patent Application Publication No. 2002/0182121 A1
PCT Patent Application No. WO 97/36942
PCT Patent Application No. WO 99/47251
PCT Patent Application No. WO 99/60028
PCT Patent Application No. WO 00/02929
PCT Patent Application No. WO 00/05277
PCT Patent Application No. WO 01/05842 A1
Belgian Patent No. 865,789
Canadian Patent No. 857,386
European Patent Application No. 415,427
European Patent Application No. 416,379
European Patent Application No. 519,266
European Patent Application No. 648,697
European Patent Application No. 891,990 A2
European Patent Application No. 891,990 A3 (International Search Report, September 17, 1999).

French Patent No. 647,754. Applicants have not obtained a translation of this patent. The patent is entitled "Apparatus for the continuous separation of suspended matter from liquids or gases". The patent was brought to Applicants' attention by a German firm.

German Patent No. 1,800,935. Applicants believe this patent is a counterpart to

U.S. Patent No. 3,640,980.
Japanese Patent Application No. 72013367
Japanese Patent Application No. 07286004 (translation by unknown translator)
Japanese Patent Application No. JP 62-13408
United Kingdom Patent No. 790547
United Kingdom Patent No. 841263
United Kingdom Patent No. 1435965
United Kingdom Patent Application No. 2,018,611
United Kingdom Patent Application No. 590595
United Kingdom Patent Application No. 828791
United Kingdom Patent Application No. 863055
United Kingdom Patent Application No. 887707
United Kingdom Patent Application No. 905879
Belgian Patent Application No. 695770
United Kingdom Patent Application No. 1147019
Poland Patent Application No. 82848
Japanese Patent Application No. 52147689
United Kingdom Patent Application No. 2018611
Austrian Patent Application No. 353479
Japanese Patent Application No. 56093701
Japanese Patent Application No. 58132009
Japanese Patent Application No. 5949233
Japanese Patent Application No. 6189211
Japanese Patent Application No. 62007704
Japanese Patent Application No. 62151412
Japanese Patent Application No. 62164703
Japanese Patent Application No. 01139602
Japanese Patent Application No. 01139603
Japanese Patent Application No. 01178503
Japanese Patent Application No. 01178504
Japanese Patent Application No. 3084014

Japanese Patent Application No. 3026686
European Patent Application No. 0432555 A2
Japanese Patent Application No. 4230863
Japanese Patent Application No. 5029649
PCT Patent Application No. WO 93/08221
Japanese Patent Application No. 6073168
Japanese Patent Application No. 07286004
Japanese Patent Application No. 2514386
PCT Patent Application No. WO 96/16996
PCT Patent Application No. WO 96/18659
PCT Patent Application No. WO 98/01477
Japanese Patent Application No. 10087738
Japanese Patent Application No. 10168115
European Patent Application No. 0891990

Tomiho Arima, et al., "Polymerization inhibitor recovery from styrene residue," *Aromatics*, page 218-222, Vol 41, No. 7/8, 1989.

Magelli et al., "Solids Separation At The Exit Of A Continuous-flow Slurry Reactor Stirred With Multiple Axial Impellers," *Trans IChemE*, Vol. 75, Part A, March 1997, 284-287.

Michael Arne, SRI International, HIGH DENSITY POLYETHYLENE, Supplement D, A private report by the PROCESS ECONOMICS PROGRAM, May 1989

K.B. Bryan et al., "Polypropylene: Supplement A." *SRI International Report*, Process Economics Program, Report No. 128A, August (1993)

J.P. Hogan et al., "Phillips Petroleum Company Loop Reactor Polyethylene Technology," *Journal of Applied Polymer Science Applied Polymer Symposium*, 36, 49-60 (1981)

R.H. Perry & C.H. Chilton (Eds.). *Chemical Engineers' Handbook* (5th ed.). McGraw-Hill, Inc., New York, New York, pp. 5-46 - 5-47 (1973)

3) At present, Applicants do not believe that the following documents constitute prior art patents or printed publications. However, the following documents may contain

information relating to prior art or of interest to the Examiner:

a. A summary from a Japanese firm, of six Japanese patent publications from a Japanese firm. For two of the summarized patent publications (Japanese Patent Application Nos. 3026686 and 5029649), Applicants have provided translations with this paper. At present, Applicants have not obtained copies or translations of the other patent publications.

b. A summary from a Japanese firm of six Japanese non-patent publications. At present, Applicants have not obtained copies or translations of these non-patent publications.

c. The declaration of Scott T. Roger, which Applicants obtained from copies of the files of certain published patent applications. No person associated with the filing and prosecution of the present application (as those terms are used in 37 CFR §1.56) was involved in the preparation of the Roger declaration.

d. Eight patent applications related to the present application and assigned to the assignee of the present application.

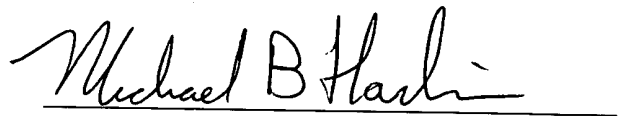
e. Seven patent applications which are not assigned to the assignee of the present application.

4) At present, with respect to the following document, Applicants lack sufficient information to determine whether it constitutes a printed publication:

"Total Quality Report", Baton Rouge, Louisiana, Vol. 13, No. 1, Jan/Feb. p. 4 (1998).

Date: April 9, 2003

Respectfully submitted,



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APR 14 2003

Sheet 1 of 8

Form PTO 449

(Rev. 8-83)
(modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION
(Us several sheets if necessary)

ATTY. DOCKET NO.

13813US01

SERIAL NO.

09/586,370

APPLICANT(s):

Hottovy, et al.

FILING DATE

Une 2, 2000

GROUP ART UNIT:

1764

U.S. PATENT DOCUMENTS

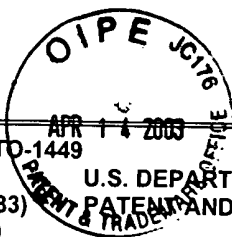
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	1,693,786	12/4/28	Isaachsen			
	2,770,295	11/13/56	Allen	159	16	
	2,825,721	3/4/58	Hogan et al.	260	94.9	3/26/56
	2,915,513	12/1/59	Leatherman et al.	260	94.9	5/21/54
	2,943,082	06/28/60	Cottle	260	93.7	
	2,951,067	08/30/60	Cash	260	94.9	
	2,952,671	09/13/60	Cottle	260	94.9	
	2,982,763	05/02/61	McLeod	260	94.9	
	2,988,527	06/13/61	Tegge	260	28.5	
	3,001,978	09/26/61	McLeod	260	94.9	
	3,126,365	03/24/64	Hooker	260	94.9	
	3,152,872	10/13/64	Scoggin et al.	34	15	
	3,172,737	03/09/65	Whittington	23	285	
	3,203,766	8/31/65	Mudd et al.	23	252	
	3,242,150	03/22/66	Scoggin	260	88.2	
	3,248,179	04/26/66	Norwood	23	285	
	3,257,363	6/21/66	Miller et al.	260	88.2	5/22/61
	3,262,922	07/26/66	Payne	260	93.7	
	3,285,899	11/15/66	Houser et al.	260	93.7	
	3,293,000	12/20/66	Marwil	23	285	10/5/62
	3,309,350	03/14/67	Kelley et al.	260	94.9	
	3,318,857	05/09/67	Dietz	260	93.7	
	3,324,093	6/6/67	Allerman	260	88.2	10/21/63
	3,418,305	12/24/68	Payne et al.	260	94.9	
	3,551,403	12/29/70	Delbouille et al.	260	94.9	8/1/68
	3,594,356	07/20/71	Hinton	260	88.2	
	3,625,658	12/7/71	Closon	23	285	5/12/69
	3,640,980	02/08/72	Baba	20	82.1	
	3,642,731	02/15/72	Tegge et al.	260	80.78	
	3,794,627	2/26/74	Giachetto	260	88.2	7/27/71

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Form PTO-1449

(Rev. 8-83)
(modified)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE**INFORMATION DISCLOSURE CITATION**

(Use sev ral sheets if necessary)

ATTY. DOCKET NO.

13813US01

SERIAL NO.

09/586,370

APPLICANT(s):

Hottovy, et al.

FILING DATE

Une 2, 2000

GROUP ART UNIT:

1764

U.S. PATENT DOCUMENTS

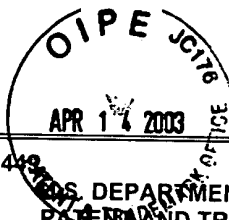
	3,816,383	06/11/74	Stotko	260	94.9	
	3,858,943	1/7/75	Bose et al.	302	26	3/13/73
	3,879,361	04/22/75	Wyatt et al.	260	80.78	
	3,912,701	10/14/75	Dunn, Jr.	260	93.7	
	3,956,061	5/11/76	Young et al.	159	48 L	2/19/74
	3,956,257	5/11/76	Hogan	526	64	8/14/75
	4,007,321	02/08/77	Scholz et al.	526	64	
	4,099,335	07/11/78	Jezl et al.	34	9	
	4,121,029	10/17/78	Irvin et al.	526	64	
	4,126,743	11/21/78	Shiomura et al.	528	503	
	4,199,546	04/22/80	Kirch	422	132	
	4,258,158	03/24/81	Pfeiffer	526	68	
	4,372,758	2/8/83	Bobst et al.	555	48	9/2/80
	4,383,972	5/17/83	McCurdy et al.	422	131	7/15/81
	4,395,523	07/26/83	Kirch	526	64	
	4,424,341	01/03/84	Hanson et al.	528	501	
	4,436,902	3/13/84	Wood et al.	528	501	2/12/82
	4,439,601	3/27/84	McCurdy et al.	528	481	7/15/81
	4,461,889	7/24/84	Hanson	528	498	9/17/80
	4,499,263	02/12/85	Messura et al.	528	483	
	4,501,885	02/26/85	Sherk et al.	528	501	
	4,528,337	7/9/85	Kreilein et al.	526	70	4/26/84
	4,543,399	9/24/85	Jenkins, III, et al.	526	70	4/3/84
	4,589,957	5/20/86	Sherk et al.	203	75	8/25/83
	4,613,484	09/23/86	Ayres et al.	422	132	
	4,632,976	12/30/86	Asanuma et al.	528	497	
	4,690,804	9/1/87	Rohlfing	422	219	9/18/85
	4,737,280	04/12/88	Hanson	210	181	
	4,794,151	12/27/88	Mueller-Mall et al.	526	64	
	4,832,915	05/23/89	Messura et al.	422	62	
	5,183,866	02/02/93	Hottovy	526	88	
	5,207,929	05/04/93	Sung et al.	210	774	
	5,225,465	07/06/93	Eichenauer et al.	524	100	

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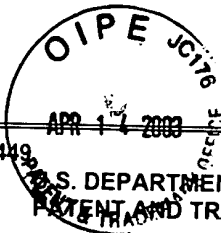
Form PTO-1449 (Rev. 8-83) (modified) INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	
	ATTY. DOCKET NO. 13813US01	SERIAL NO. 09/586,370
	APPLICANT(s): Hottovy, et al.	
	FILING DATE Une 2, 2000	GROUP ART UNIT: 1764

U.S. PATENT DOCUMENTS

	5,272,236	12/21/93	Lai et al.	526	348.5	
	5,276,115	1/4/94	Bohmer et al.	526	126	12/14/92
	5,278,272	01/11/94	Lai et al.	526	348.5	
	5,292,863	3/8/94	Wang	528	483	11/2/90
	5,314,579	05/24/94	Sung	159	74.1	
	5,326,835	75/94	Ahvenainen et al.	526	64	8/20/92
	5,371,158	12/6/84	Brekner et al.	526	127	7/2/93
	5,387,659	2/7/95	Hottovy et al.	526	59	2/8/93
	5,416,179	5/16/95	Welch et al.	526	160	3/16/94
	5,455,314	10/03/95	Burns et al.	526	61	
	5,473,020	12/5/95	Peifer et al.	525	243	6/30/94
	5,480,948	1/2/96	Geerts	526	142	3/28/95
	5,492,985	2/20/96	Peifer et al.	526	127	5/31/95
	5,565,174	10/15/96	Burns et al.	422	131	
	5,565,175	10/15/96	Hottovy et al.	422	132	10/1/90
	5,575,979	11/19/96	Hanson	422	132	
	5,597,892	01/28/97	Hanson	528	501	
	5,639,834	06/17/97	Debras et al.	526	64	
	5,712,365	1/27/98	Arai et al.	528	498	3/20/96
	5,744,555	04/28/98	Ames et al.	526	67	
	5,747,407	05/05/98	Martin	502	26	
	5,898,053	04/27/99	Leaney et al.	526	68	
	5,959,044	09/28/99	Villar	526	61	
	5,986,021	11/16/99	Hokkanen et al.	526	64	2/10/98
	6,042,790	3/28/00	Hottovy et al.	422	131	10/24/94
	6,045,661	04/04/00	Kreischer et al.	203	73	
	6,204,344	03/20/01	Kendrick et al.	526	64	
	6,225,422	05/01/01	Power et al.	526	68	
	6,239,235	05/29/01	Hottovy et al.	526	64	
	6,281,300	08/28/01	Kendrick	526	88	
	6,319,997	11/20/01	Kendrick et al.	526	64	
	6,380,325	04/30/02	Kendrick	526	64	

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U.S. PATENT DOCUMENTS

	2001/0012497 A1	08/09/01	Debras	422	131	
	2002/0086955 A1	07/04/02	Kendrick	526	88	02/14/02
	2002/0111441 A1	08/15/02	Kendrick et al.	526	64	11/06/01
	2002/0132936 A1	09/19/02	Kendrick et al.	526	64	11/06/01
	2002/0173598 A1	11/21/02	Kendrick et al.	526	64	02/19/02
	2002/0182121 A1	12/05/02	Kendrick	422	131	05/14/02

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NO.	PUBLICATION ON DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 97/36942	10/09/97	PCT	C08F	8/00		
	WO 99/47251	09/23/99	PCT	B01J	8/00		
	WO 99/60028	11/25/99	PCT	C08F			
	WO 00/02929	01/20/00	PCT	CO8F	10/00		
	WO 00/05277	02/03/00	PCT	CO8F	4/02		
	WO 01/05842 A1	1/25/01	PCT				X
	WO 93/08221	04/29/93	PCT				
	WO 96/16996	06/06/96	PCT				
	WO 96/18659	06/20/96	PCT				
	WO 98/01477	01/15/98	PCT				
	BE 865789	07/31/78	Belgium			X(Abstract only)	
	BE 695770	09/20/67	Belgium			X(Abstract only)	
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	EP 415427	3/6/91	EPO				
	EP 416379	3/13/91	EPO				
	EP 519266	12/23/92	Europe	B01J	19/24	X(Abstract only)	
	EP 648697	4/19/95	EPO				
	EP 891 990 A2	1/20/99	EPO				

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Sheet 5 of 8

Form PTO-1449 (Rev. 8-83) (modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.	SERIAL NO.
			13813US01	09/586,370
			APPLICANT(s):	
			Hottovy, et al.	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)			FILING DATE	GROUP ART UNIT:
			Une 2, 2000	1764

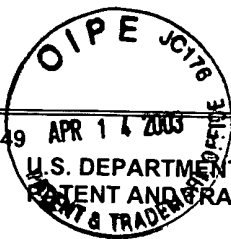
FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NO.	PUBLICATION DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	EP 891 990 A3 (International Search Report, 09/17/99)	1/20/99	EPO				
	EP 0432555 A2	06/19/91	Europe				
	DE 1800935	05/69	Germany				
	FR 647754	11/30/28	France				
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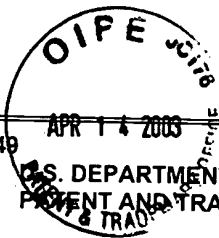
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	APPLICANT(s): Hottovy, et al.		
	FILING DATE Une 2, 2000	GROUP ART UNIT: 1764	

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